# 26.4: Discussion

**<u>Discussion (30 points)</u>**

Write a minimum one-page (12 font, single spaced) discussion on the experiment conducted this week. **The assignment will be graded on completeness, clarity of the explanations and the meaningful integration of the collected and calculated data.** Correct grammar and appropriate format for the chemical formulae and chemical reactions is expected. **You may use the outline included at the end of this document on how to build your essay to address each category.**

1. Classify making caramel as a physical or chemical change and justify your choice.

2. Classify making the black snake as a physical or chemical change and justify your choice.

3. Classify the invisible ink experiment as a physical or chemical change and justify your choice.

4. Based on your observations how did the same smell from the snake and the caramel experiments compare?

5. Identify and explain the role of baking soda in the black snake experiment.

6. Based on your observations, give a supported prediction as to whether the mass of the product would be greater or less than the starting material in each experiment.

7. Identify at least one factor that is important to control in making caramel.

8. List the 3 components of fire and identify each one in the black snake experiment. (HINT: it is possible to have more than one chemical in each category.)

9. List the 3 components of fire and identify each one in the invisible ink experiment.

10. Provide a supported argument for why drying the paper in the invisible ink experiment was necessary.

11. Identify any similarities between the fuels used in the three experiments.

**Recommended discussion outline:**

The techniques I used in this experiment were…

This lab is considered qualitative because…

In this experiment we assumed ....

The purpose of the experiment was (Hint: it was not to cook) … By performing this experiment, I learned…

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